COURSE DATA

Data Subject	
Code	34740
Name	Mixed prosthetics and implant prosthetics
Cycle	Grade
ECTS Credits	6.0
Academic year	2018 - 2019

Study (s)

Degree	Center	Acad. year	Period
1206 - Degree in Dentistry	Faculty of Medicine and Odontology	5	Second term

Subject-matter

Degree	Subject-matter	Character
1206 - Degree in Dentistry	37 - Mixed prosthetics and implant prosthetics	Optional

Coordination

Name	Department
SOLA RUIZ, MARIA FERNANDA	131 - Stomatology

SUMMARY

In combined prostheses, knowledge related to a type of dental prostheses, which require more sophisticated and specialised techniques than normal, is developed.

Combined prostheses implies that students apply both knowledge on fixed and removable prostheses, which have been already taught in the subject ‘Dental Prostheses I and II’, and knowledge on biomechanics of retention systems, like attachments which connect them.

Prostheses on implants introduces a completely unknown system for students, both with respect to their indications and the components used. Specific competencies have to be developed in order to manufacture prostheses, free distal edgeand complete oral rehabilitation ones.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

To enrolin this subject, students must have passed 108 credits from the following module: Dental pathology and therapeutics.

OUTCOMES

1206 - Degree in Dentistry

- Tomar e interpretar radiografías y otros procedimientos basados en la imagen, relevantes en la práctica odontológica.
- Realizar modelos diagnósticos, montarlos y tomar registros inter-oclusales.
- Diseñar, preparar los dientes, prescribir, registrar, realizar pruebas clínicas y colocar y poner en servicio restauraciones indirectas: incrustaciones, carillas o frentes laminados estéticos y coronas unitarias,
- Tratar el edentulismo tanto parcial como total, incluidos el diseño biológico (características específicas de diseño), preparación dentaria, obtención de registros, pruebas clínicas y adaptación a los pacientes de prótesis removibles parciales y completas, puentes sencillos dento-soportados y prótesis sencillas sobre implantes, tanto removibles como fijas, incluyendo su «colocación» y «puesta en servicio»,
- Elaborar las prescripciones de los productos sanitarios a medida «prótesis dentales» y «aparatos de ortodoncia y ortopedia dento-facial».
- Determinar e identificar los requisitos estéticos del paciente y de las posibilidades de satisfacer sus inquietudes.
- Valorar y tratar al paciente con caries su otra patología dentaria no cariosa y ser capaz de utilizar todos los materiales encaminados a restaurar la forma, función y la estética del diente en pacientes de todas las edades.
- Diagnosticar, planificar y realizar, con carácter general, un tratamiento multidisciplinar, secuencial e integrado de complejidad limitada en pacientes de todas las edades y condiciones y en pacientes con necesidades especiales (diabéticos, hipertensos, oncológicos, transplantados, inmunodeprimidos, anticoagulados, entre otros) o discapacitados. Específicamente, el dentista debe ser competente en el establecimiento de un diagnóstico, de un pronóstico y el desarrollo de una adecuada planificación terapéutica

LEARNING OUTCOMES

Combined prostheses:

-Knows the biomechanical behaviour of different attachments and their clinical indications.

-Knows the system of clinical sessions for the preparation of combined prosthesis.

-Differentiates between fixed prosthesis designs and removable ones according to the amount of teeth remainingin the oral cavity and their health state.

-Knows the imprinting and manufacturing materials for combined prosthesis.

-Knows special cementing techniques for this kind of prosthesis.

-Sequences the maintenance and reline of prosthesis.

Prostheses on implants:

-Knowledge on the necessary prosthetic accessoriesfor the preparation of prostheses.

-Diagnosis and treatment plan for several types of edentulism.

-Clinical systematic for the preparation of prostheses, of free distal edge, fixed oral rehabilitation ones, and overdentures on implants.

-Maintenance and problem solving which may be derived from the biomechanics for this kind of prosthesis.

DESCRIPTION OF CONTENTS

1. THEORETICAL PROGRAMME: COMBINED PROSTHESIS.

UNIT 1: Concept of Combined prostheses. Evolution historical. Components.
UNIT 2: Individual diagnosis and treatment plan. Indications and contraindications. Advantages and disadvantages.
UNIT 3: Biomechanical basis of Combined Prostheses.
UNIT 4: The concept of attachment (retention systems). Classification of attachments.
UNIT 5: Intracoronary attachments.
UNIT 6: Root attachments.
UNIT 7: Extracoronary attachments I.
UNIT 8: Extracoronary attachments II.
UNIT 9: Overdentures I. telescopic crowns.
UNIT 10: Overdentures II.
UNIT 11: Retentive dispositives.
UNIT 12: Stabilizers.
UNIT 13: Strains I.
UNIT 14: Strains II.
UNIT 15: Combined prostheses failure. Composure techniques.

2. THEORETICAL PROGRAMME: PROSTHESES ON IMPLANTS.

UNIT 17: Diagnosis and Treatment Plan (I).
UNIT 18: Diagnosis and Treatment Plan (II).
UNIT 19: Diagnosis and Treatment plan (III).
UNIT 20: Prosthodontic accessories (I).
UNIT 21: Prosthodontic accessories (II). Transepithelial abutments.
UNIT 22: Imprint techniques.
UNIT 23: Emptying models.
UNIT 24: Provisional prostheses. Immediate charge.
UNIT 25: Prosthetic units.
UNIT 26: Free distal edge prosthesis.
UNIT 27: Oral rehabilitation on implants.
UNIT 28: Hybrid prosthesis.
UNIT 29: Occlusion in prosthesis on implants. Primary occlusal trauma. Secondary occlusal trauma.
UNIT 30: Overdentures on implants.

3. LABORATORY PRACTISE PROGRAMME.

1. Establishment of a treatment plan.
2. Imprinting of combined prostheses. Duplication of models.
3. Waxing I. Waxing II.
4. Management of retentive dispositives in combined prostheses.
5. Selection of attachments I.
6. Selection of attachments II.
7. Overdentures. Different types of anchorage.
8. Cementing crowns in combined prostheses.
9. Anchorage fastening. Methods.
10. Maintenance of combined prosthesis. Composures.

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	27,00	100
Classroom practices	25,00	100
Laboratory practices	8,00	100
Preparing lectures	40,00	0
Resolution of case studies	50,00	0
TOTAL	**150,00**	

TEACHING METHODOLOGY

Theoretical contents will be taught through master classes, with multimedia resources as support. Practise in the laboratory will be done through simulation models.

EVALUATION

Final exam: written test which consists of 5 short essay questions regarding content on Combined Prostheses, and 5 short essay questions related to content on Prostheses on Implants.

Students will need to passevery single part of the subject, in order to establish an average mark and obtain a final score.

In this subject, students will not be allowed to write their test (or even take it before the agreed date) if they have not completed their training (internship) with great interest.

REFERENCES

Basic

- Precision attachments in Prosthodontics: The applications of intracoronal and extracoronal attachments. Preiskel HW. Quintessence books, Chicago 1984. Vol. 1 y 2.
- An atlas of overdentures and attachments. Jumber JF. Quintessence books, Chicago, 1981.
- Implantología contemporánea. Misch CE. Elsevier Mosby, Barcelona 2009.
- Prótesis dental sobre implantes. Misch CE. Elsevier Mosby, Barcelona 2005.